



**CONSTRUCTION  
TECHNOLOGY**

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# MAKE-DO

Be prepared for success, take **TECH.**



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# CHALLENGE 1

Build a maze.



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## CHALLENGE 2

Home sweet home!  
Create a shelter for  
someone or something.



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## CHALLENGE 3

Design a marble  
roller coaster.



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## CHALLENGE 4

Design a wind  
powered car.



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## CHALLENGE 5

Design and construct a structure that uses linkages with a fixed fulcrum.

Level up - Design a structure with linkages that include a moveable fulcrum.



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## CHALLENGE 6

Design and construct a three dimensional object

Level up - find its dimensions using appropriate formulas (e.g., circumference, diameter, volume).



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## CHALLENGE 7

Show a structure by its net  
and how it arranges itself into  
the structure

Level up - calculate its  
dimensions using appropriate  
formulas (e.g., surface area).



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## CHALLENGE 8

Design and construct a  
costume piece  
Level up - incorporate  
moveable parts.



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## CHALLENGE 9

Can you construct the  
tallest free-standing  
structure?



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## CHALLENGE 10

Make some music!  
Create a musical  
instrument using items  
found in  
the classroom.



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## CHALLENGE 11

Find something in the classroom that needs to be organized and make something to help it be contained.



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## CHALLENGE 12

Make yourself comfortable by constructing a three dimensional seat that you can sit on.



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## CHALLENGE 13

Design your space! Create a structure that can be showcased on a wall.

Level up: use different techniques to secure pieces together (Make-Do screws, scoring, cutting, slots).



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## CHALLENGE 14

Construct a prototype for a redesigned piece of sports equipment (e.g., helmet, chest protector, ball)

Level up: create a new game and the equipment that you need.



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## CHALLENGE 15

Is it a bird? Is it a plane? Make something that moves. Level up: Use the Make-do pieces to incorporate a hinge into your design.



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## CHALLENGE 16

Design and construct a structure that can hold the most weight.

Level up: incorporate stabilization features like trusses.

